

## Bibliographic Information

**Antimicrobial pharmaceuticals containing bacampicillin hydrochloride and  $\beta$ -lactamase inhibitor.** Araki, Kazuhiko; Moriguchi, Akihiko; Ikeda, Takashi; Yokoyama, Yoshihito. (Yoshitomi Pharmaceutical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho (1991), 4 pp. CODEN: JKXXAF JP 03206038 A2 19910909 Heisei. Patent written in Japanese. Application: JP 90-2303 19900108. CAN 116:46341 AN 1992:46341 CAPLUS

## Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 03206038	A2	19910909	JP 1990-2303	19900108

### Priority Application

JP 1990-2303	19900108
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## Abstract

Antimicrobial oral pharmaceuticals contain bacampicillin-HCl (I) and 2 $\alpha$ -methyl-2 $\beta$ -(1,2,3-triazole-1-yl)methylpenam-3 $\alpha$ -carboxylic acid 1,1-dioxide 1-[(ethoxycarbonyl)oxy]ethyl ester (II). 2 $\alpha$ -Methyl-2 $\beta$ -(1,2,3-triazole-1-yl)methylpenam-3 $\alpha$ -carboxylic acid 1,1-dioxide 5.0, di-Et  $\alpha$ -chlorocarbonate 3.05, NaI 3.00, and K<sub>2</sub>CO<sub>3</sub> 1.38 g were mixed in 50 mL DMSO at 50° for 5 h to give 2.5 g II. I 250, II 125, lactose 80, cryst. cellulose 40, and Mg stearate 5 mg were mixed and granulated to give a capsule. I and II (4:1) were orally administered to Klebsiella pneumoniae-infected mice, which showed min. inhibitory concn. of 50  $\mu$ g/mL and median ED of 4.709 mg/mouse, vs. 50  $\mu$ g/mL and 8.978 mg/mouse for a control using YTR 830H instead of II.

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**Bibliographic Information**

**Preparation of 1-[alkyl[carbonylbis(oxy)]]ethyl cephemcarboxylates as antibiotics.** Adam, Friedhelm; Blumbach, Juergen; Duerckheimer, Walter; Fischer, Gerd; Mencke, Burghard; Isert, Dieter; Seibert, Gerhard; Klesel, Norbert. (Hoechst A.-G., Germany). Ger. Offen. (1990), 20 pp. CODEN: GWXXBX DE 3901405 A1 19900726 Patent written in German. Application: DE 89-3901405 19890119. CAN 114:81408 AN 1991:81408 CAPLUS (Copyright 2004 ACS on SciFinder (R))

**Patent Family Information**

Patent No.	Kind	Date	Application No.	Date
DE 3901405	A1	19900726	DE 1989-3901405	19890119
EP 379132	A2	19900725	EP 1990-100799	19900116
EP 379132	A3	19920108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
AU 9048536	A1	19900726	AU 1990-48536	19900117
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DD 291561	A5	19910704	DD 1990-337164	19900117
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JP 02229196	A2	19900911	JP 1990-10436	19900119

Priority Application  
DE 1989-3901405

19890119

### Abstract

The title compds. [I; R = CHMeO<sub>2</sub>COR<sub>3</sub>; R<sub>1</sub> = H, Me; R<sub>2</sub> = H, MeO; 1 of R<sub>1</sub>R<sub>2</sub> = H; R<sub>3</sub> = (cyclo)alkyl, (cyclo)alkoxy; R<sub>4</sub> = H] were prepd. as antibiotics (no data) by condensation of I (R = cation) with XCHMeO<sub>2</sub>COR<sub>3</sub> (X = leaving group). Thus, ClCHMeO<sub>2</sub>CCl was stirred 2 h at 0-5° with HOCHMeCH<sub>2</sub>OMe in CH<sub>2</sub>Cl<sub>2</sub> contg. pyridine and the product stirred 2 h with NaI and Zn chloride in CS<sub>2</sub> to give ICHMeO<sub>2</sub>COCHMeCH<sub>2</sub>OMe which was stirred 10 min with I (R = K, R<sub>1</sub> = CMe<sub>2</sub>OMe, R<sub>2</sub> = MeO, R<sub>4</sub> = Ph<sub>3</sub>C) in DMF to give, after deprotection, I (R = CHMeO<sub>2</sub>COCHMeCH<sub>2</sub>OMe, R<sub>1</sub> = R<sub>4</sub> = R<sub>2</sub> = MeO).

